

0500/0420



OIKE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/051,098

DATE: 02/06/2002

TIME: 16:16:16

Input Set : N:\Crf3\RULE60\10051098.raw

Output Set: N:\CRF3\02062002\J051098.raw

## SEQUENCE LISTING

## 3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Sakagami, Youji

6 Matsubayashi, Yoshikatsu

8 (ii) TITLE OF INVENTION: Plant Growth Factor

10 (iii) NUMBER OF SEQUENCES: 9

12 (iv) CORRESPONDENCE ADDRESS:

13 (A) ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &amp;

14 Dunner

15 (B) STREET: 1300 I Street, N.W.

16 (C) CITY: Washington

17 (D) STATE: D.C.

18 (E) COUNTRY: USA

19 (F) ZIP: 20005-3315

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Floppy disk

23 (B) COMPUTER: IBM PC compatible

24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

27 (vi) CURRENT APPLICATION DATA:

C--&gt; 28 (A) APPLICATION NUMBER: US/10/051,098

C--&gt; 29 (B) FILING DATE: 22-Jan-2002

39 (vii) PRIOR APPLICATION DATA:

32 (A) APPLICATION NUMBER: 08/949,038

33 (B) FILING DATE:

36 (A) APPLICATION NUMBER: PCT/JP95/02091

37 (B) FILING DATE: 12-OCT-1995

40 (A) APPLICATION NUMBER: PCT/JP96/00994

41 (B) FILING DATE: 11-APR-1996

43 (viii) ATTORNEY/AGENT INFORMATION:

44 (A) NAME: Fordis, Jean B.

45 (B) REGISTRATION NUMBER: 32,984

46 (C) REFERENCE/DOCKET NUMBER: 04853.0023-00000

48 (ix) TELECOMMUNICATION INFORMATION:

49 (A) TELEPHONE: (202) 408-4000

50 (B) TELEFAX: (202) 408-4400

53 (2) INFORMATION FOR SEQ ID NO: 1:

55 (i) SEQUENCE CHARACTERISTICS:

56 (A) LENGTH: 5 amino acids

57 (B) TYPE: amino acid

58 (C) STRANDEDNESS:

59 (D) TOPOLOGY: linear

61 (ii) MOLECULE TYPE: peptide

ENTERED

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64 (ix) FEATURE:
65 (A) NAME/KEY: Modified-site
66 (B) LOCATION: 1
67 (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
69 (ix) FEATURE:
70 (A) NAME/KEY: Modified-site
71 (B) LOCATION: 3
72 (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 77 Xaa Ile Xaa Thr Gln
78 1 5
80 (2) INFORMATION FOR SEQ ID NO: 2:
82 (i) SEQUENCE CHARACTERISTICS:
83 (A) LENGTH: 4 amino acids
84 (B) TYPE: amino acid
85 (C) STRANDEDNESS:
86 (D) TOPOLOGY: linear
88 (ii) MOLECULE TYPE: peptide
91 (ix) FEATURE:
92 (A) NAME/KEY: Modified-site
93 (B) LOCATION: 1
94 (D) OTHER INFORMATION: /note= "Xaa mean O-sulfotyrosine."
96 (ix) FEATURE:
97 (A) NAME/KEY: Modified-site
98 (B) LOCATION: 3
99 (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
102 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
W--> 104 Xaa Ile Xaa Thr
105 1
107 (2) INFORMATION FOR SEQ ID NO: 3:
109 (i) SEQUENCE CHARACTERISTICS:
110 (A) LENGTH: 5 amino acids
111 (B) TYPE: amino acid
112 (C) STRANDEDNESS:
113 (D) TOPOLOGY: linear
115 (ii) MOLECULE TYPE: peptide
118 (ix) FEATURE:
119 (A) NAME/KEY: Modified-site
120 (B) LOCATION: 1
121 (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
123 (ix) FEATURE:
124 (A) NAME/KEY: Modified-site
125 (B) LOCATION: 3
126 (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
129 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
W--> 131 Xaa Ile Xaa Thr Gln
132 1 5
134 (2) INFORMATION FOR SEQ ID NO: 4:
136 (i) SEQUENCE CHARACTERISTICS:

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137      (A) LENGTH: 5 amino acids
138      (B) TYPE: amino acid
139      (C) STRANDEDNESS:
140      (D) TOPOLOGY: linear
142      (ii) MOLECULE TYPE: peptide
145      (ix) FEATURE:
146          (A) NAME/KEY: Modified-site
147          (B) LOCATION: 1
148          (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
150      (ix) FEATURE:
151          (A) NAME/KEY: Modified-site
152          (B) LOCATION: 3
153          (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
156      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 158      Xaa Val Xaa Thr Gln
159          1          5
161      (2) INFORMATION FOR SEQ ID NO: 5:
163          (i) SEQUENCE CHARACTERISTICS:
164              (A) LENGTH: 5 amino acids
165              (B) TYPE: amino acid
166              (C) STRANDEDNESS:
167              (D) TOPOLOGY: linear
169          (ii) MOLECULE TYPE: peptide
172          (ix) FEATURE:
173              (A) NAME/KEY: Modified-site
174              (B) LOCATION: 1
175              (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
177          (ix) FEATURE:
178              (A) NAME/KEY: Modified-site
179              (B) LOCATION: 3
180              (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
183          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
W--> 185      Xaa Ile Xaa Ser Gln
186          1          5
188      (2) INFORMATION FOR SEQ ID NO: 6:
190          (i) SEQUENCE CHARACTERISTICS:
191              (A) LENGTH: 5 amino acids
192              (B) TYPE: amino acid
193              (C) STRANDEDNESS:
194              (D) TOPOLOGY: linear
196          (ii) MOLECULE TYPE: peptide
199          (ix) FEATURE:
200              (A) NAME/KEY: Modified-site
201              (B) LOCATION: 1
202              (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
205          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
W--> 207      Xaa Ile Tyr Thr Gln
208          1          5
210      (2) INFORMATION FOR SEQ ID NO: 7:

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212      (i) SEQUENCE CHARACTERISTICS:
213          (A) LENGTH: 5 amino acids
214          (B) TYPE: amino acid
215          (C) STRANDEDNESS:
216          (D) TOPOLOGY: linear
218      (ii) MOLECULE TYPE: peptide
221      (ix) FEATURE:
222          (A) NAME/KEY: Modified-site
223          (B) LOCATION: 3
224          (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine."
227      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
W--> 229      Tyr Ile Xaa Thr Gln
230          1             5
232      (2) INFORMATION FOR SEQ ID NO: 8:
234          (i) SEQUENCE CHARACTERISTICS:
235              (A) LENGTH: 5 amino acids
236              (B) TYPE: amino acid
237              (C) STRANDEDNESS:
238              (D) TOPOLOGY: linear
240          (ii) MOLECULE TYPE: peptide
245          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
247      Tyr Ile Tyr Thr Gln
248          1             5
250      (2) INFORMATION FOR SEQ ID NO: 9:
252          (i) SEQUENCE CHARACTERISTICS:
253              (A) LENGTH: 5 amino acids
254              (B) TYPE: amino acid
255              (C) STRANDEDNESS:
256              (D) TOPOLOGY: linear
258          (ii) MOLECULE TYPE: peptide
261          (ix) FEATURE:
262              (A) NAME/KEY: Modified-site
263              (B) LOCATION: 1
264              (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine or
265 tyrosine."
267          (ix) FEATURE:
268              (A) NAME/KEY: Modified-site
269              (B) LOCATION: 2
270              (D) OTHER INFORMATION: /note= "Xaa means an aliphatic amino acid."
272          (ix) FEATURE:
273              (A) NAME/KEY: Modified-site
274              (B) LOCATION: 3
275              (D) OTHER INFORMATION: /note= "Xaa means O-sulfotyrosine or
276 tyrosine."
278          (ix) FEATURE:
279              (A) NAME/KEY: Modified-site
280              (B) LOCATION: 4
281              (D) OTHER INFORMATION: /note= "Xaa means an aliphatic amino acid."
283          (ix) FEATURE:

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Output Set: N:\CRF3\02062002\J051098.raw

284 (A) NAME/KEY: Modified-site

285 (B) LOCATION: 5

286 (D) OTHER INFORMATION: /note= "Xaa means an aliphatic amino acid  
287 or single bond."

290 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

W--&gt; 292 Xaa Xaa Xaa Xaa Xaa

293 1 5

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/051,098

DATE: 02/06/2002

TIME: 16:16:17

Input Set : N:\Crif3\RULE60\10051098.raw

Output Set: N:\CRF3\02062002\J051098.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9